

Kennedy/Jenks Consultants

Engineers & Scientists

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20 July 2001

Mr. Mario Stavale
Boeing Realty Corporation
3760 Kilroy Airport Way
Suite 500
Long Beach, CA 90806

Subject: Report of Destruction of Well BL-2
Boeing Realty Corporation Former C-6 Facility
Los Angeles, California
K/J 004032.02

Dear Mr. Stavale:

Kennedy/Jenks Consultants (Kennedy/Jenks) provides this report documenting the destruction of monitoring well BL-2 at Boeing Realty Corporation's Former C-6 Facility in Los Angeles, California (Site). BL-2 was installed on 3 February 1999 by Arcadis Geraghty & Miller in connection with groundwater characterization of the former International Light Metals (ILM) property immediately west of the Site. The redevelopment of a portion of the Site known as Parcel B required that well BL-2 be destroyed. Construction plans show that the former well is to be located under the centerline of a foundation footing.

Groundwater monitoring well BL-2 was located along the western boundary of the Site (Figure 1), about 50 ft east of the property boundary and 1,600 ft south of 190th Street. Well BL-2 was constructed of 2-inch Schedule-40 PVC casing, was 81.5 ft deep, and had a screened interval from 61.5 to 81.5 ft below ground surface (bgs). The lead environmental agency for activities at the former ILM facility is the California Department of Toxic Substances Control (DTSC).

SCOPE OF WORK

The well was destroyed in two phases starting on 2 May 2001. The initial phase included groundwater gauging and sampling of BL-2 followed by well destruction. Kennedy/Jenks performed groundwater gauging and sampling, while West Hazmat Drilling Company (West Hazmat), a C-57 licensed drilling contractor, performed the well destruction using a mobile drilling rig. During the initial destruction activity a tremie pipe was not used to place the grout, therefore it was decided to redrill and regrout the well. This second phase was performed using West Hazmat on 8 June 2001.

The following sections summarize the activities for both the initial and second phase of destruction.

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INITIAL WELL DESTRUCTION

Initial well destruction activities were performed on 2 May 2001 under a permit issued by the Los Angeles County Department of Health Services (DHS), a copy of which is included as Attachment A.

Task 1 – Groundwater Monitoring

Immediately prior to well destruction on 2 May 2001, Kennedy/Jenks gauged BL-2. Wells BL-1 and BL-3, located within 950 ft of BL-2, were gauged on 31 May 2001. The water levels were gauged against the top of the well casing (measuring point) to the nearest 0.01 ft using an electronic water level meter. The top of the casing at BL-3 had been previously damaged; therefore, an accurate water level elevation measurement was not possible. The following water levels were recorded.

Table 1.
Water Level Data

Well No.	Top of Casing Elevation (ft MSL)	Depth to Water (ft below top of casing)	Groundwater Elevation (ft MSL)
BL-1	58.34	71.02	-12.68
BL-2	58.15	71.76	-13.61
BL-3	NA	71.10	NA

NA – Not available. The well casing had been damaged at the time of measurement.

On 2 May 2001, Monitoring Well BL-2 was purged using an electric submersible pump. Purged water was monitored in the field for pH, electrical conductivity, and temperature. These parameters were stable after purging approximately six gallons of water, and a total of 10 gallons of water was purged. A field sampling form documenting the purging and sampling activities is included in Attachment B.

Upon completion of purging, a water sample was collected using a disposable bailer with a bottom-emptying device. A portion of the sample was transferred into three 40-ml VOA bottles for analysis of volatile organic compounds (VOCs), including trichloroethene (TCE), by EPA Method 8260. Another portion of the sample was transferred into a 500-ml polyethylene bottle for analysis of chromium by EPA Method 7199. The results of the analytical testing are summarized in the following table. Method 8260 analytes not included in Table 2 were not detected in the analysis.

Table 2.
Analytical Results for BL-2

Analyte	Result In Monitoring Well BL-2 (µg/l)
Trichloroethene	1,100
Chloroform	5.1 J
Hexavalent Chromium	16

J – Result is less than the reporting limit.

The analytical test results and chain-of-custody documentation for the water sample collected on 2 May 2001 are included in Attachment C.

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Task 2 – Overdrill and Grout

Well BL-2 was destroyed by overdrilling the PVC casing with an 8³/₈-inch OD auger to a total depth of about 84 ft bgs. The well casing and screen were ground up by the advance of the bit and recovered from the hole with the soil and annulus materials. The materials recovered during drilling were transferred into two 55-gallon drums for temporary onsite storage pending offsite disposal.

Following overdrilling, the borehole was grouted with a mixture of 3 to 3.5 bags of Portland cement per 30 gallons of water; a total grout volume of approximately 200 gallons. As required by the DTSC, no bentonite was used in the mix. This mix was placed into the overdrilled borehole by knocking out the wooden plug/stinger and pouring mix down the inside of the hollow-stem auger until the mix reached the ground surface in the auger. Hollow stem augers were then pulled from the hole in 20 ft increments, allowing the grout to flow into the open hole. After each increment of auger was removed, additional cement was added to bring the level of the mix to surface.

SECOND PHASE WELL DESTRUCTION

Between the initial and second phase of destruction, building construction activities at BL-2 required that a portion of the cement plug be removed, and the top of the plug had been lowered to 8 ft bgs. In order to proceed with the second phase:

- A backhoe was used to expose the plug,
- An 18-inch OD (12-inch ID) auger was placed over the exposed plug to an approximate depth of 10 ft to act as a conductor casing. The excavation was then backfilled around the casing to provide the stability required to advance smaller augers within the casing.

Drilling proceeded as follows:

- A 10-inch OD (6.25-inch ID) auger equipped with a steel-plate-covered wood plug was used to advance the borehole to a depth of 35 ft bgs. In this interval, the cuttings were approximately 40 percent grout (light gray concrete chips) and 60 percent soil. At a depth of 35 ft bgs coinciding with a change in soil type from relatively fine-grained sediment to coarser-grained materials, an apparent decline in the percentage of grout in the drill cuttings was noted. This suggested that either there was a void space in the original placement of the plug or the drill bit might have moved laterally off of the cement plug.
- The 10-inch OD auger was temporarily withdrawn and the modified wooden plug removed.
- The 18-inch OD auger was advanced to a depth of 50 ft bgs to recapture the plug and act as a guide to minimize the tendency for lateral movement of the smaller auger that was to be advanced through the silty sand encountered below 35 ft. In the interval between 35 to 50 ft bgs, the cuttings were approximately 25 percent grout and 75 percent soil. This lower percentage was expected given the larger diameter hole.
- The 10-inch OD auger equipped with a retrievable center bit was advanced through the 18-inch OD auger to a depth of 85 ft bgs. In the interval between 50 and 80 ft bgs, cuttings were not observed at the surface as they accumulated on the auger flights and

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worked their way to the surface. The first cuttings were observed at the surface as the borehole was advanced from 80 ft to the total depth of 85 ft bgs.

- The retrievable center bit was removed from the 10-inch OD auger, and the auger was filled with the cement mixture using the tremie and grout procedures described in the section below.
- Upon withdrawal, a five-foot auger flight was removed before the 10-inch OD auger became sand locked. The 18-inch OD auger was removed as part of the effort to recover the 10-inch auger.
- During attempts to free the 10-inch OD auger, it sheared off and the column of grout moved into the hole as the remaining auger was withdrawn. As a result, 35 linear ft of 10-inch OD auger was left in the hole from about 45 to 80 ft bgs.

Mixing and Grouting

The cement mix used to fill the drill hole was mixed in a ratio of 4 bags of Portland cement to 30 gallons of water. The mixing and placement process was carefully monitored and recorded by Kennedy/Jenks. During grout placement, the 1.5-inch diameter tremie pipe was placed at the bottom of the 10-inch OD auger (i.e., 85 ft bgs) and grout was placed under pressure in 20-ft lifts until the 10-inch OD auger was full to the surface.

After the 10-inch OD auger sheared off and was withdrawn, the cement grout in the upper 45 ft of the 10-inch OD augers drained into the hole. The 18-inch OD auger had been removed earlier, as described above. The cement mix was then tremied into the upper 45' to 50 ft of the 18-inch hole to within 1 foot of the surface. The borehole remained open without collapsing or caving during grouting. Grouting observations for the second phase of BL-2 well destruction are summarized in Table 3, and a schematic of the completed destruction configuration is shown in Figure 2.

Table 3.
Destruction Observations for BL-2 – Second Phase

Overdrilling Observations	BL-2 Redrill	Comment
Total Depth Drilled (ft)	85	
Depth that cuttings were first observed at top of conductor casing	13.5 ft	
Length (ft) of 10-inch OD hole / Depth interval (ft bgs) of 10-inch OD hole	35 / 45-80	This 35-ft interval contains 30 ft of 10-inch diameter auger that sheared off in the lower portion of the hole.
Volume of 10-inch OD hole below 50 ft (gal.)	143	Calculated volume of 10-inch diameter hole. Actual volume is less because remaining auger flights occupy a portion of the hole.
Length (ft) of 18-inch OD hole / Depth interval (ft bgs) of 18-inch OD hole	50 / 0-50	This 50-ft interval contains 5 ft of 10-inch diameter auger that sheared off in the lower portion of the hole.
Volume of 18-inch OD hole (gal.)	661	
Total maximum volume of hole (gal.)	804	Assumes the theoretical maximum of an open borehole below 50 ft bgs. Actual volume is less due to presence of auger.
BACKFILL OBSERVATIONS		
Backfill mixture totals, Portland (bags) / Water (gal.)	76 / 570	
Total volume of Portland/water mix used (gal.)	912 - 950	A total of 19 batches were mix at about .48 to 50 gallons each

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Table 3.
Destruction Observations for BL-2 – Second Phase

Overdrilling Observations	BL-2 Redrill	Comment
Thickness of soil cover (ft)	8	Compacted to 95%, placement and compaction was monitored and approved by Norcal.

Final Completion

Upon inspection of the former BL-2 location on 11 June 2001, it was observed that the cement level had receded to 4.4 ft bgs. For site construction purposes an excavator was used to:

- re-excavate the soil that had been temporarily placed around the 18-inch OD casing,
- remove the cement plug to a depth of 8 ft bgs, and
- place and compact soil in the excavation.

Norcal provided compaction testing and approval. A compaction report from Norcal is included in Attachment D.

Destruction Derived Waste (Initial and Second Phase)

The two drums of destruction residuals from the initial destruction phase were temporarily stored at the Site pending disposal by Boeing Realty Corporation. Kennedy/Jenks has been informed by Boeing that these drums were disposed of as nonhazardous at the Phillips Environmental facility in Inglewood, California.

Eleven drums of destruction residuals from the second phase of destruction were temporarily stored at the Site pending disposal by Boeing Realty Corporation. Kennedy/Jenks has been informed by Boeing that these drums will be disposed of as nonhazardous at the Chem Waste Management facility near Kettleman City, California.

Kennedy/Jenks appreciates the opportunity to provide this service to Boeing Realty Corporation. Please call me if you have any questions.

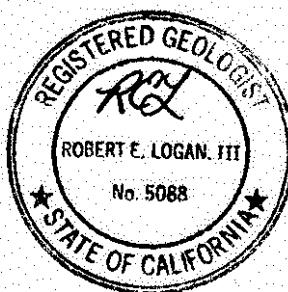
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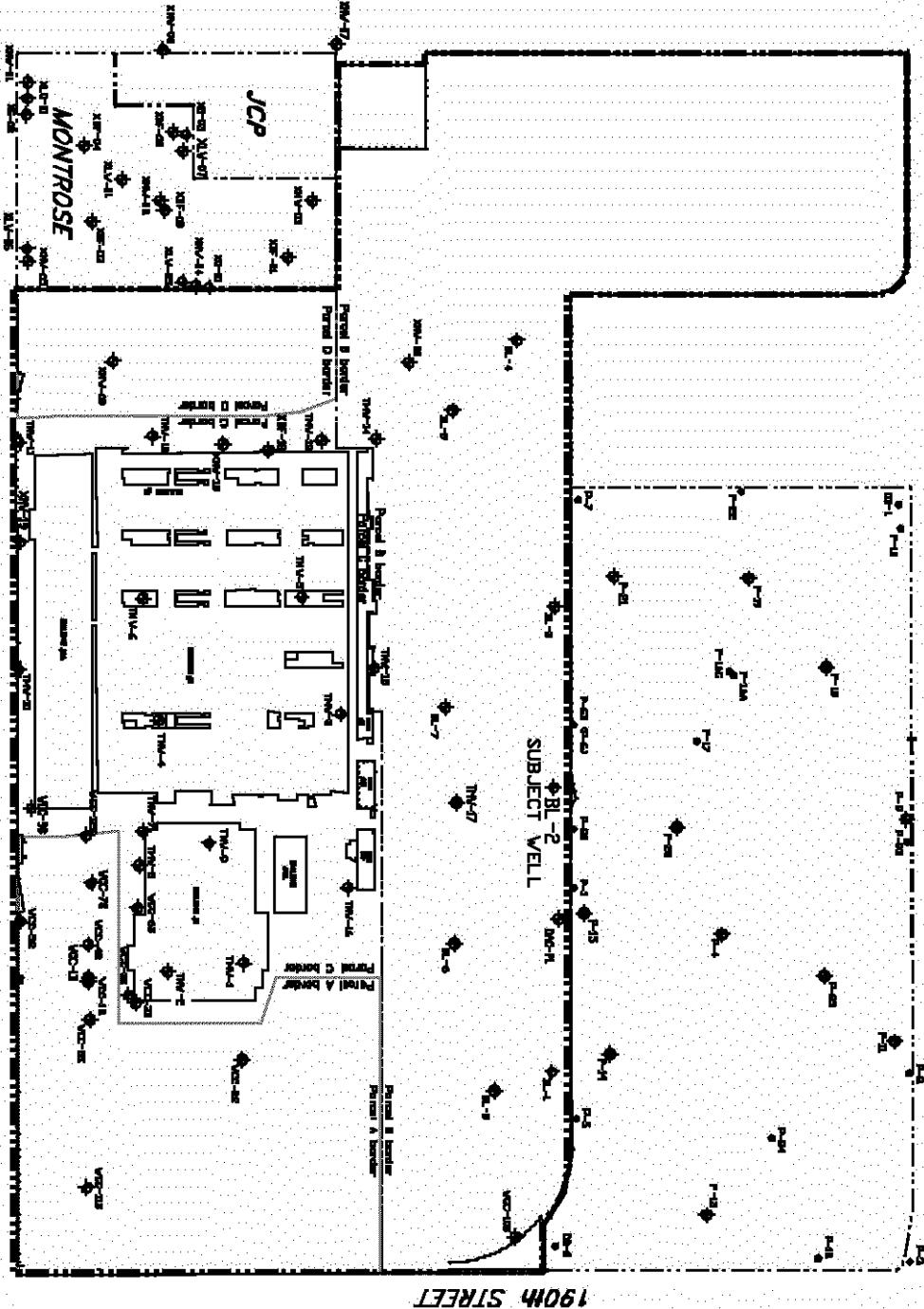
Robert C Logan
 KENNEDY/JENKS CONSULTANTS
 Robert E. Logan, R.G.
 Senior Geologist

Attachments:

- Figure 1 – Well Location Map
- Figure 2 - Completed Destruction Configuration
- Attachment A – Permit for Destruction of Monitoring Well BL-2
- Attachment B – Field Sampling Form BL-2 Groundwater Monitoring
- Attachment C – Analytical Test Results and Chain-of-Custody Documentation
- Attachment D – Norcal Compaction Report

cc: Ron Giraudi, TRC Solutions, Inc.
 Stephanie Sibbett, Boeing Realty Corporation





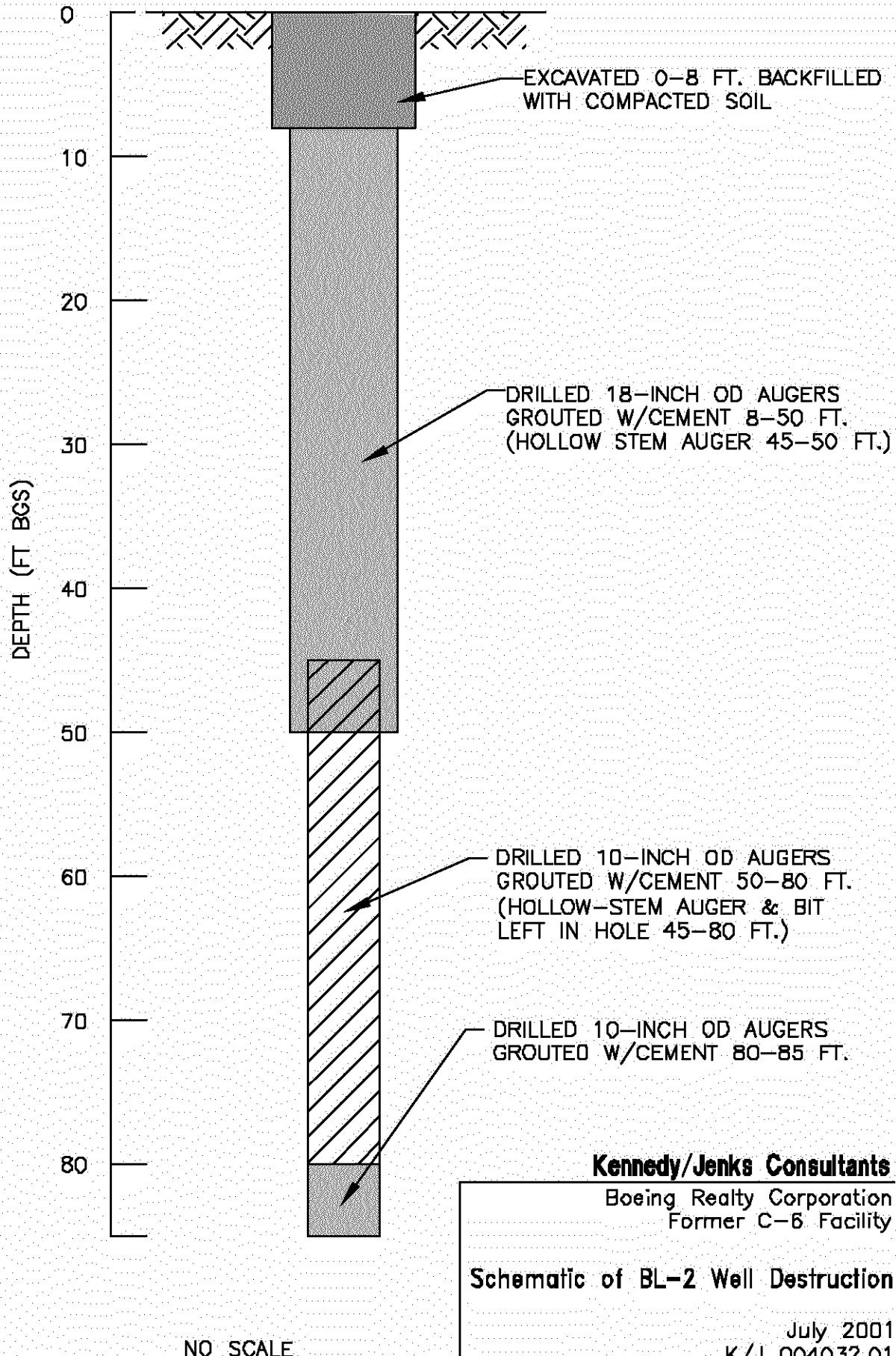
Approximate Scale 1"=600'

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Boeing Realty Corporation
Former C-6 Facility

Former Location of BL-2

July 2001
K/J 004032.01

Figure 1



Kennedy/Jenks Consultants

Boeing Realty Corporation
Former C-6 Facility

Schematic of BL-2 Well Destruction

July 2001
K/J 004032.01

Figure 2

ATTACHMENT A
PERMIT FOR DESTRUCTION OF MONITORING WELL BL-2

MAY-23-2001 16:26

WEST HAZMAT DRILLING

714 939 6759

P.02

ENVIRONMENTAL HEALTH 2525 Corporate Place Monterey Park, Ca 91754
COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICESDATE
04-26-01

DESCRIPTION

TYPE OF PERMIT (CHECK)

- NEW WELL CONSTRUCTION
 RECONSTRUCTION OR RENOVATION
 DESTRUCTION

TYPE OF WELL

- PRIVATE DOMESTIC
 PUBLIC DOMESTIC
 IRRIGATION
 OBSERVATION/MONITORING

- CATHODIC
 INDUSTRIAL
 GRAVEL PACK
 TEST

TYPE OF CASING

2" PVC. Sch 40

METHOD OF SEALING OF CASING

METHOD OF DESTRUCTION
 Drill out to total Depth & tremie grout (Bentonite Cement) from the bottom to grade followed by a concrete cap

ADDRESS (NUMBER, STREET, AND NEAREST INTERSECTION)

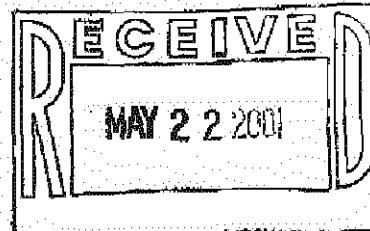
9503 South Normandie Ave.

CITY
Los Angeles

DIAGRAM (SHOW PROPERTY LINES, STREET, ADDRESS, WELL SITE, SEWERS, AND PRIVATE SEWAGE DISPOSAL SYSTEMS ALONG WITH LABELS AND DIMENSIONS)

see Attached

LOCATION



NAME OF WELL DRILLER (PRINT)

west Hazmat drilling Inc.

TRADE NAME

1016 E Kotella Ave Anaheim CA 92805

BUSINESS ADDRESS

CITY

NAME OF WELL OWNER (PRINT)

Boeing Realty Corporation

MAILING ADDRESS

3760 Kilroy Airport Way Suite 500

CITY

Long Beach CA 90806

I hereby agree to comply in every respect with all regulations of the County Preventive/Public Health Services and with all ordinances and laws of the County of Los Angeles and of the State of California pertaining to well construction, reconstruction and destruction. Upon completion of well and within ten days thereafter, I will furnish the County Preventive/Public Health Services with a complete log of the well, giving date drilled, depth of well, all perforations in casing, and any other data deemed necessary by such County Preventive/Public Health Services.

 w.H.D.C.
 Applicant's Signature

DISPOSITION OF APPLICATION: (For Sanitarians Use Only)

 APPROVED DENIED APPROVED WITH CONDITIONS

If denied or approved with conditions, report reason or conditions here:

DATE

SANITARIAN

DATE

5/2/01

SECTION CHIEF

Ed Bragg

ATTACHMENT B
FIELD SAMPLING FORM BL-2 GROUNDWATER MONITORING

Groundwater Purge and Sample Form

Date: 5-2-01

Kennedy/Jenks Consultants

PROJECT NAME: Boeing Parcel B

WELL NUMBER: BL-2

PROJECT NUMBER: 004034.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 71.76

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Sounder

PURGE METHOD: Radi-Flow 2

TIME START PURGE: 0710

PURGE DEPTH (FT) 80'

TIME END PURGE: 0722

TIME SAMPLED: 0730

COMMENTS: Sample # BL-2-050201

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			CASING VOLUME (GAL)
				2	4	6	
	87.60	71.76	11.84	X	0.16	0.64	1.44

TIME	0716	0719	0722				
VOLUME PURGED (GAL)	3 gal.	6 gal.	4 gall				
PURGE RATE (GPM)							
TEMPERATURE (°C)	70.6	71.9	72.5				
pH	7.06	7.14	7.11				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	3510	2560	2510				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light tan	light yellow	clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form

Date: 5-2-01

Kennedy/Jenks Consultants

PROJECT NAME: Boeing

WELL NUMBER: BL-2

PROJECT NUMBER: 004034.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 0730

COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Kestech Prew 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
BL-2-050201	4	WQA ⁺ 500ml plastic	HCL None	No	100 ml 500 ml	—	Clear	Yes	8260 + 7199	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 gal.

COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NOWELL CASING OK?: YES NO

COMMENTS: No protection around exposed well casing, approx 1.5' above grade.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 60°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Bob Logan

Job File:

Other:

ATTACHMENT C
ANALYTICAL TEST RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0100)	Project Manager Russ Purcell	Date 5-2-01	Chain of Custody Number 051855
Client Kennedy / Trulce	Telephone Number (Area Code)/Fax Number 949-361-1572	Lab Number 2	Page 2 of 2
Address 2151 N. Michelson Dr. Suite 100	Site Contact Cherie Scrim Shire	Analysis (Attach list if more space is needed)	
City Irvine	Zip Code CA. 92612	Carrier/Waybill Number 00403400	Special Instructions/ Conditions of Receipt
Project Name and Location (State) Severn Trent Part I C		Matrix	Containers & Preservatives
Contract/Reference Order/Quote No. 0000003		Date	Time
Sample ID No. and Description (Containers for each sample may be combined on one line)		1	2
(Containers for each sample may be combined on one line)		3	4
		5	6
		7	8
		9	10
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		713	714
		715	716
		717	718
		719	720
		721	722
		723	724
		725	726
		727	728
		729	730
		731	732
		733	734
		735	736
		737	738
		739	740
		741	742
		743	744
		745	746
		747	748
		749	750
		751	752
		753	754
		755	756
		757	758
		759	760

EXECUTIVE SUMMARY - Detection HighlightsELE020280

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<u>EL_2_050201_ 05/02/01 07:30 014</u>				
Chloroform	5.1 J	12	ug/L	SW846 8260B
Trichloroethene	1100	12	ug/L	SW846 8260B

000007

KENNEDY/JENKS CONSULTANTS

Client Sample ID: BL_2_050201

GC/MS Volatiles

Lot-Sample #....: E1E020280-014 Work Order #....: ECPPG1AA Matrix.....: WATER
 Date Sampled....: 05/02/01 07:30 Date Received...: 05/02/01 15:35 MS Run #.....: 1124160
 Prep Date.....: 05/04/01 Analysis Date...: 05/04/01
 Prep Batch #....: 1124415 Analysis Time...: 07:07
 Dilution Factor: 12.5
 Analyst ID.....: 015590 Instrument ID...: MSH
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	120	ug/L	3.8
Benzene	ND	12	ug/L	3.8
Bromobenzene	ND	12	ug/L	3.8
Bromochloromethane	ND	12	ug/L	3.8
Bromoform	ND	12	ug/L	3.8
Bromomethane	ND	25	ug/L	12
Carbon tetrachloride	ND	6.2	ug/L	3.8
2-Butanone	ND	62	ug/L	3.8
n-Butylbenzene	ND	12	ug/L	3.8
sec-Butylbenzene	ND	12	ug/L	3.8
tert-Butylbenzene	ND	12	ug/L	2.5
Carbon disulfide	ND	12	ug/L	3.8
Chlorobenzene	ND	12	ug/L	3.8
Dibromochloromethane	ND	12	ug/L	3.8
Dichlorodifluoromethane	ND	12	ug/L	5.0
1,2-Dichloroethane	ND	6.2	ug/L	2.5
Bromodichloromethane	ND	12	ug/L	3.8
Chloroethane	ND	25	ug/L	3.8
Chloroform	5.1 J	12	ug/L	2.5
Chloromethane	ND	25	ug/L	3.8
2-Chlorotoluene	ND	12	ug/L	3.8
4-Chlorotoluene	ND	12	ug/L	3.8
1,2-Dibromo-3-chloro-propane	ND	25	ug/L	7.5
1,2-Dibromoethane	ND	12	ug/L	3.8
Iodomethane	ND	25	ug/L	12
1,2-Dichlorobenzene	ND	12	ug/L	2.5
1,3-Dichlorobenzene	ND	12	ug/L	2.5
1,4-Dichlorobenzene	ND	12	ug/L	3.8
1,1-Dichloroethane	ND	12	ug/L	2.5
cis-1,2-Dichloroethene	ND	12	ug/L	3.8
trans-1,2-Dichloroethene	ND	12	ug/L	2.5
Vinyl chloride	ND	6.2	ug/L	3.8
2,2-Dichloropropane	ND	12	ug/L	3.8
1,1-Dichloropropene	ND	12	ug/L	3.8
Ethylbenzene	ND	12	ug/L	2.5
Hexachlorobutadiene	ND	12	ug/L	3.8

(Continued on next page)

000039

KENNEDY/JENKINS CONSULTANTS

Client Sample ID: BL_2_050201

GC/MS Volatiles

Lot-Sample #....: ELE020280-014 Work Order #....: ECPPGLAA Matrix.....: WATER

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
2-Hexanone	ND	62	ug/L	25
Isopropylbenzene	ND	12	ug/L	2.5
p-Isopropyltoluene	ND	12	ug/L	2.5
Methylene chloride	ND	12	ug/L	2.5
4-Methyl-2-pentanone	ND	62	ug/L	25
Methyl tert-butyl ether	ND	12	ug/L	6.2
n-Propylbenzene	ND	12	ug/L	5.0
Styrene	ND	12	ug/L	3.8
1,1,1,2-Tetrachloroethane	ND	12	ug/L	3.8
1,1,2,2-Tetrachloroethane	ND	12	ug/L	3.8
Tetrachloroethene	ND	12	ug/L	8.8
Toluene	ND	12	ug/L	3.8
1,2,3-Trichlorobenzene	ND	12	ug/L	5.0
1,2,4-Trichloro- benzene	ND	12	ug/L	3.8
1,1,1-Trichloroethane	ND	12	ug/L	2.5
1,1,2-Trichloroethane	ND	12	ug/L	3.8
Trichloroethene	1100	12	ug/L	3.8
Trichlorofluoromethane	ND	25	ug/L	2.5
1,2,3-Trichloropropane	ND	12	ug/L	3.8
1,1,2-Trichlorotrifluoro- ethane	ND	12	ug/L	2.5
1,2,4-Trimethylbenzene	ND	12	ug/L	2.5
1,3,5-Trimethylbenzene	ND	12	ug/L	2.5
Xylenes (total)	ND	12	ug/L	6.2
Acrolein	ND	250	ug/L	150
Acrylonitrile	ND	250	ug/L	120
Vinyl acetate	ND	62	ug/L	12
Tetrahydrofuran	ND	120	ug/L	25
2-Chloroethyl vinyl ether	ND	62	ug/L	25
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
		(75 - 120)		
Bromofluorobenzene	93			
1,2-Dichloroethane-d4	116	(65 - 130)		
Toluene-d8	94	(80 - 130)		

NOTE(S):

J Estimated result. Result is less than RL.

000040

QC DATA ASSOCIATION SUMMARY

XLB020280

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
002	SOLID	SW846 8082		1123195	1123129
003	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
004	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
	SOLID	SW846 7471A		1123280	1123128
	SOLID	SW846 8260B		1130350	1130155
	SOLID	SW846 6010B		1123277	1123126
005	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
	SOLID	SW846 7471A		1123280	1123128
	SOLID	SW846 8260B		1130287	1130112
	SOLID	SW846 6010B		1123277	1123126
006	SOLID	SW846 8260B		1130287	1130112
007	SOLID	SW846 8260B		1128469	1128260
008	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
009	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
010	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
011	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
012	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123397	1121226
013	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202

(Continued on next page)

000052

MAY 25'01 16:30 FR STL LOS ANGELES

714 25B 2517 TO 19492612134

P.54/84

QC DATA ASSOCIATION SUMMARY

ELE020280

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PRSP BATCH #	MS RUN#
014	WATER	SW846 8260B		1124415	1124160
015	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
016	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202
017	SOLID	SW846 8015B		1123197	1123066
	SOLID	SW846 8015B		1123398	1123202

000053

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E1E020280
 MB Lot-Sample #: E1E040000-415

Work Order #....: ECWAG1AA
 Prep Date.....: 05/03/01

Matrix.....: WATER

Analysis Date...: 05/03/01

Prep Batch #: 1124415

Analysis Time...: 20:59

Dilution Factor: 1

Analyst ID.....: 015590

Instrument ID...: MSH

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	0.50	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	0.50	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	0.50	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B

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000058

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: E1E020280

Work Order #....: ECWAGLAA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloroproppane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichlorotrifluoro- ethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Acrolein	ND	20	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Vinyl acetate	ND	5.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
2-Chloroethyl vinyl ether	ND	5.0	ug/L	SW846 8260B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	94	(75 - 120)		
1,2-Dichloroethane-d4	115	(65 - 130)		
Toluene-d8	94	(80 - 130)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

000059

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E1E020280 Work Order #....: ECWAG1AC Matrix.....: WATER
 LCS Lot-Sample#: E1E040000-415
 Prep Date.....: 05/04/01 Analysis Date...: 05/04/01
 Prep Batch #:....: 1124415 Analysis Time...: 21:28
 Dilution Factor: 1 Instrument ID...: MSH
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
Benzene	10.0	9.98	ug/L	100	SW846	8260B
1,1-Dichloroethene	10.0	12.4	ug/L	124	SW846	8260B
Chlorobenzene	10.0	9.43	ug/L	94	SW846	8260B
Toluene	10.0	9.43	ug/L	94	SW846	8260B
Trichloroethene	10.0	10.7	ug/L	107	SW846	8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	100	(75 - 120)	
1,2-Dichloroethane-d4	117	(65 - 130)	
Toluene-d8	98	(80 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000072

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: E1E020280 Work Order #....: ECWAG1AC Matrix.....: WATER
 LCS Lot-Sample#: E1E040000-415
 Prep Date.....: 05/04/01 Analysis Date...: 05/04/01
 Prep Batch #....: 1124415 Analysis Time...: 21:28
 Dilution Factor: 1 Instrument ID...: MSH
 Analyst ID.....: 015590

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>	<u>METHOD</u>
Benzene	100	(75 - 120)	SW846 8260B	
1,1-Dichloroethene	124	(70 - 130)	SW846 8260B	
Chlorobenzene	94	(80 - 120)	SW846 8260B	
Toluene	94	(80 - 120)	SW846 8260B	
Trichloroethene	107	(75 - 130)	SW846 8260B	

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
Bromofluorobenzene	100	(75 - 120)	
1,2-Dichloroethane-d4	117	(65 - 130)	
Toluene-d8	98	(80 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000082

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: E1E020280 Work Order #....: ECM1G1AD-MS Matrix.....: WATER
 MS Lot-Sample #: E1E010253-001 ECM1G1AE-MSD
 Date Sampled...: 04/30/01 17:00 Date Received...: 05/01/01 20:00 MS Run #....: 1124160
 Prep Date.....: 05/04/01 Analysis Date...: 05/04/01
 Prep Batch #:....: 1124415 Analysis Time...: 06:07
 Dilution Factor: 1 Analyst ID....: 015590 Instrument ID...: MSH

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>SPIKE</u>	<u>MEASRD</u>	<u>UNITS</u>	<u>PERCENT</u>		
	<u>AMOUNT</u>	<u>AMT</u>	<u>AMOUNT</u>		<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	ND	10.0	9.57	ug/L	96		SW846 8260B
	ND	10.0	9.73	ug/L	97	1.6	SW846 8260B
1,1-Dichloroethane	ND	10.0	12.4	ug/L	124		SW846 8260B
	ND	10.0	12.5	ug/L	125	0.80	SW846 8260B
Chlorobenzene	ND	10.0	9.29	ug/L	93		SW846 8260B
	ND	10.0	9.35	ug/L	94	0.64	SW846 8260B
Toluene	ND	10.0	8.99	ug/L	90		SW846 8260B
	ND	10.0	9.20	ug/L	92	2.3	SW846 8260B
Trichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.7	ug/L	107	1.6	SW846 8260B

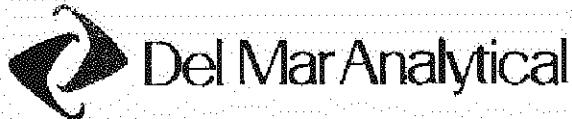
<u>SURROGATE</u>	<u>PERCENT</u>		<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
Bromofluorobenzene	102	(75 - 120)	
	99	(75 - 120)	
1,2-Dichloroethane-d4	128	(65 - 130)	
	122	(65 - 130)	
Toluene-d8	100	(80 - 130)	
	96	(80 - 130)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

000093



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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 765-0043 FAX (480) 765-0851

LABORATORY REPORT

Prepared For: STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705

Attention: Diane Suzuki
Project: E1E020280

Sampled: 05/02/01
Received: 05/02/01
Reported: 05/10/01

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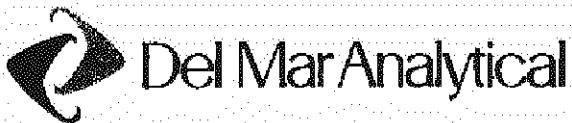
CA ELAP Certificate #1197
AZ DHS License #AZ0428

A handwritten signature in black ink, appearing to read "Pat Abe".

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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IKE0058 <Page 1 of 4>



STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Project ID: E1E020280

Report Number: IKE0058

Sampled: 05/02/01

Received: 05/02/01

INORGANICS

Analyte	Method	MDL	Reporting Batch	Sample Limit	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
		mg/l		mg/l		mg/l		

Sample ID: IKE0058-01 (E1E020280-014 - Water)

Chromium VI	EPA 7199	IIE0238	0.00020	0.0020	0.016	1	05/02/01	05/02/01	P2
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Del Mar Analytical, Irvine
Pat Abe
Project Manager

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IKE0058 <Page 2 of 4>



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9484 Chesapeake Dr., Suite 605, San Diego, CA 92122 (619) 505-9996 FAX (619) 505-9999
8830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Project ID: E1E020280

Report Number: IKE0058

Sampled: 05/02/01
Received: 05/02/01

METHODS USED

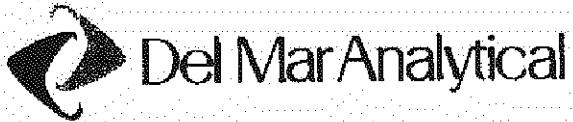
INORGANICS

Analyte	Result	Reporting Limit	MDL	Spike Units	Source Level	%REC Result	%REC Limits	RPD	Data RPD Limit Qualifiers
Batch: I1E0238 Extracted: 05/02/01									
Blank Analyzed: 05/02/01 (I1E0238-BLK1)									
Chromium VI	ND	0.0020	0.00020	mg/l					
LCS Analyzed: 05/02/01 (I1E0238-BS1)									
Chromium VI	0.00368	0.0020	0.00020	mg/l	0.00400		92.0	90-110	
Matrix Spike Analyzed: 05/02/01 (I1E0238-MS1)						Source: IKE0058-01			
Chromium VI	0.0202	0.0020	0.00020	mg/l	0.00400	0.016	105	70-130	P2
Matrix Spike Dup Analyzed: 05/02/01 (I1E0238-MSD1)						Source: IKE0058-01			
Chromium VI	0.0203	0.0020	0.00020	mg/l	0.00400	0.016	107	70-130	0.494 15 P2

Del Mar Analytical, Irvine
Pat Abe
Project Manager

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IKE0058 <Page 3 of 4>



STL Los Angeles
1721 S. Grand Avenue
Santa Ana, CA 92705
Attention: Diane Suzuki

Project ID: E1E020280

Report Number: IKE0058

Sampled: 05/02/01
Received: 05/02/01

2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Costa Mesa, CA 92626 (800) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
6484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9589
9890 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0861

DATA QUALIFIERS AND DEFINITIONS

- P2 Sample received without chemical preservation, but preserved by the laboratory.
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR Not reported.
RPD Relative Percent Difference

Del Mar Analytical, Irvine
Pat Abe
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from Del Mar Analytical.*

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Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: DEL MAR ANALYTICAL
2852 ALTON AVE.
IRVINE CA 92606,BUI A

NEED ANALYTICAL REPORT BY
5/07/01

ATTN:

LAB PURCHASE ORDER: SR030669

CLIENT CODE: 366740 PROJECT MANAGER: Diane Suzuki

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D. E1E020280-014 SAMPLING DATE 5/02/01 ANALYSIS REQUIRED
ECPPG-1-AC Archive (ARCHIVE) METHOD: NONE

B₂⁺⁶ by 7199

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: DROP OFF DATE: 5/02/01

SEND REPORT TO: DROP OFF

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Los Angeles
INT: 5/02/01 17:19:56
DEL MAR ANALYTICAL
2852 ALTON AVE.
IRVINE CA 92606,BUI A

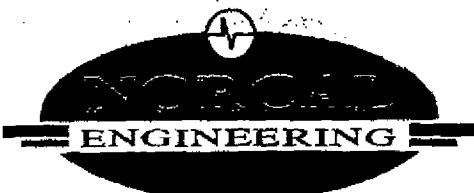
RELINQUISHED BY: Sample Control DATE/TIME: 5/02/01 16:40

RELINQUISHED BY: John DATE/TIME: 5-2-01 1700

RECEIVED FOR LAB BY: RJH DATE/TIME: 5/2/01 1700 3 intact

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

ATTACHMENT D
NORCAL COMPACTION REPORT



SOILS AND GEOTECHNICAL CONSULTANTS

Field Observation Memo

07/20/2001

13:22

3103207857

10641 HUMBOLDT STREET
LOS ALAMITOS, CALIFORNIA 90720
PHONE 562.799.9469 • FAX 562.799.9459

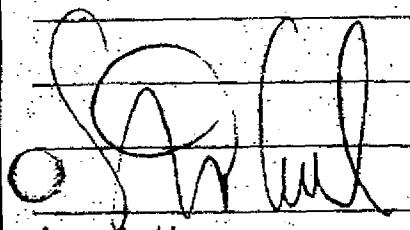
Project Infinity Media, Inc. (CEG)

Date 6-11-2001

Address 19481 Harborgate Way
Los Angeles, Calif. (Lot 7, Tract 59173)

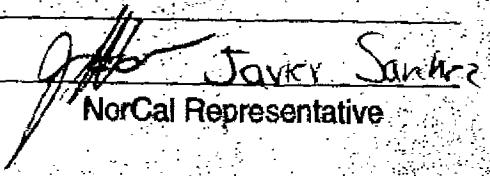
Project Number 867800

Observation and testing of backfill operations for an excavation from abandoned monitoring well located under proposed foundation at the north-west corner of proposed building. All the backfill was done under the observation and approval of this firm. The maximum depth of fill placed was 8 feet. All compaction tests taken resulted above 90% of the laboratory standard and is suitable for its intended use.



Accepted by

C.E.G.



Javier Sanchez
NorCal Representative